

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/000405

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D417/04 C07D417/14 A61K31/506

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 2005/012298 A (CYCLACEL LIMITED; WANG, SHUDONG; MEADES, CHRISTOPHER; GIBSON, DARREN;) 10 February 2005 (2005-02-10) claims 1-48	1-45
P, A	WO 2004/043953 A (CYCLACEL LIMITED; WANG, SHUDONG; MEADES, CHRISTOPHER; WOOD, GAVIN; O'B) 27 May 2004 (2004-05-27) claims 1-65	1-45
Y	WO 2004/005283 A (VERTEX PHARMACEUTICALS INCORPORATED; LEDEBOER, MARK; WANG, JIAN; MOON,) 15 January 2004 (2004-01-15) claims 1-38	1-45
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

19 July 2005

Date of mailing of the international search report

03/08/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	WO 03/029248 A (CYCLACEL LIMITED; WANG, SHUDONG; MEADES, CHRISTOPHER; WOOD, GAVIN; OSN) 10 April 2003 (2003-04-10) claims 1-19; figures 1-10 -----	1-45
Y	WO 01/72745 A (CYCLACEL LIMITED; FISCHER, PETER, MARTIN; WANG, SHUDONG) 4 October 2001 (2001-10-04) claims 1-25; figures 1-14 -----	1-45
Y	ZIMMERMANN J ET AL: "PHENYLAMINO-PYRIMIDINE (PAP) DERIVATIVES: A NEW CLASS OF POTENT AND SELECTIVE INHIBITORS OF PROTEIN KINASE C (PKC)" July 1996 (1996-07), ARCHIV DER PHARMAZIE, VCH VERLAGSGESELLSCHAFT MBH, WEINHEIM, DE, PAGE(S) 371-376 , XP000885618 ISSN: 0365-6233 page 372 - page 373; tables I,II -----	1-45

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WO 2005012298 A	10-02-2005	WO 2005012298 A1	10-02-2005
WO 2004043953 A	27-05-2004	AU 2003301977 A1 WO 2004043953 A1	03-06-2004 27-05-2004
WO 2004005283 A	15-01-2004	AU 2003247959 A1 CA 2491895 A1 WO 2004005283 A1 US 2004097531 A1	23-01-2004 15-01-2004 15-01-2004 20-05-2004
WO 03029248 A	10-04-2003	BR 0212944 A CA 2460909 A1 CZ 20040354 A3 EP 1430051 A1 WO 03029248 A1 JP 2005508931 T US 2004259894 A1	13-10-2004 10-04-2003 16-06-2004 23-06-2004 10-04-2003 07-04-2005 23-12-2004
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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P019379WO ZCW	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2005/000405	International filing date (day/month/year) 07/02/2005	(Earliest) Priority Date (day/month/year) 06/02/2004
Applicant CYCLACEL LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☐ the text is approved as submitted by the applicant.

☒ the text has been established by this Authority to read as follows:

PYRIDINYL - OR PYRIMIDINYL THIAZOLES WITH PROTEIN KINASE INHIBITING ACTIVITY

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

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INTERNATIONAL SEARCH REPORT

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Information on patent family members

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